

- the plurality of sections are stacked so that the magnetic circuits (37) are exactly superposed and the sections of the film of polymer material are made to adhere to one another in order to obtain a composite laminated product (40);

- the sections of films made of polymer material are drilled over the entire thickness of the laminated composite product (40) in order to produce through-holes (41) in regions located within the magnetic circuits (37) and in regions located outside said magnetic circuits (37);

- in that the through-holes (41) are internally metallized; and

- electrical conductors are produced on both sides of the composite laminated product (40), said electrical conductors joining the ends of the holes (41), in the form of at least one winding (42, 43).

23. A magnetic component made of a magnetic alloy in nanocrystalline form, characterized in that it is produced in a laminated form and in that it comprises at least one strip made of a magnetic material in nanocrystalline form and at least one coating layer comprising at least one polymer film superposed on the strip made of nanocrystalline magnetic alloy and adhering to this strip made of nanocrystalline magnetic alloy.

24. The magnetic component as claimed in claim 23, characterized in that it constitutes a flat transformer component (26a, 26b, 26c) having the shape of an E, an I or a U.

25. The magnetic component as claimed in claim 23, characterized in that it constitutes a toric magnetic core (27a, 27b, 27c) in the form of a washer or in the form of a square or rectangular

frame.

26. The magnetic component as claimed in claim 25,
characterized in that it constitutes a slit torus
(27c) having a gap (27c) in the radial direction.

27. The magnetic component as claimed in claim 23,
characterized in that it constitutes one of the
following elements: a magnetic circuit component
for the rotors or stators of watches, the rotor or
stator of an electric motor, an antitheft label, a
magnetic component such as an inductor or
transformer, in particular a thin inductor or
transformer having a thickness of the order of one
millimeter.

28. The magnetic component as claimed in claim 23,
characterized in that it constitutes a transformer
(44) integrated into a printed circuit or a
discrete transformer.

29. A laminated strip consisting of at least one strip
made of nanocrystalline alloy covered on at least
one of its sides with a coating layer comprising
at least one polymer film.

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SOLE/JOINT

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name: that I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter claimed and for which a patent is sought in the application entitled: "Process for the treatment of a thin brittle metal strip and magnetic components produced from a strip made of a nanocrystalline alloy".

which application is:

☐ the attached application
(for original application)

☒ Application No. 09/889626
filed July 19, 2001 and amended on

(for declaration not accompanying application)

that I have reviewed and understand the contents of the specification of the above-identified application, including the claims, as amended by any amendment referred to above; that I acknowledge my duty to disclose information of which I am aware and which is material to the patentability of this application as defined in 37 C.F.R. 1.56, that I hereby claim priority benefits under Title 35, United States Code §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, §119(e) of any United States provisional application(s), or §365(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT International application having a filing date before that of the application on which priority is claimed:

Application Number	Country	Filing Date	Priority Claimed	
			Yes	No
99 00 521	FRANCE	19/01/1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under 35 United States Code §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in a listed prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge my duty to disclose any information material to the patentability of this application as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Filing Date	Status
PCT/FR0000077	14/01/2000	Pending

I hereby appoint John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 12,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603; George F. Lehnigk, Reg. No. 36,359; John T. Callahan, Reg. No. 32,607 and Steven M. Gruskin, Reg. No. 36,818, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC, 2100 Pennsylvania Avenue, N.W. Washington, D.C. 20037-3213.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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